Amendments to the Written Description of the Specification

Applicant presents replacement paragraphs below indicating the changes with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please replace the last paragraph beginning at page 5, line 28 through page 6, line 7 with the amended paragraph as follows:

--An equation for b0' is now generated using the constraint (1) and the parameterization technique ~~SO~~ so that:

b0'=(NOT b0" AND NOT [b0=1]) OR (b0" AND [b0=0])

=NOT b0

Substituting this equation in constraint (2) gives:

b1=(b0 AND b1') OR (NOT b0 AND NOT b1') or, equivalently: [[-]]

(b1' [[)]]AND [b0=b1]) OR (NOT b1' AND NOT [b0=b1])

By using this equation, an equation for b1' can be generated by the parameterization technique, whereby:

b1' =(NOT b1" ~~bill~~ AND [b0=b1]) OR (b1" AND [b0=b1]) thus b1'=[b0=b1] --

Please amend the equation on page 7, line 3 as follows:

X[V:=E] substitutes the expressions E for the variables V in the predicate ~~(~~X~~)~~

Please amendment the paragraph on page 7, lines 10-17 as shown below

Let the state variables and transition functions of the machine be S and T (observation functions are not considered), then the reverse system is constructed as follows. First note that S' (the next-state variables of the reverse system) correspond to the previous states of the original system. Beginning with the transitions of the reverse system being T', the transition functions of the original system are used to constrain them. Thus, for each state ~~S~~ s and transition t, there is a constraint S==t[S:=S']. Call the set of constraints C. For each constraint, the parameterization E over the variables S', is calculated and this is substituted in the transition functions and the remaining constraints.